Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1.   (Currently Amended) A color image processing apparatus of performing a color image display using a red display, a green display, a blue display and a white display, comprising:

white signal generation instrument which generates a white signal

(Formula 1)

$$W = min(R_{in},G_{in},B_{in}),$$

based on an input red signal R_{in} for making said red display to be inputted, an input green signal G_{in} for making said green display to be inputted, and an input blue signal B_{in} for making said blue display to be inputted;

yellow signal generation instrument which generates a yellow signal

(Formula 2)

$$Ye = min(R_{in}-W,G_{in}-W),$$

based on said input red signal R_{in} to be inputted, said input green signal G_{in} to be inputted, and said generated white signal W; and

first output white signal generation instrument which generates a first output white signal $W_{out}^{(1)}$ for making said white display to be outputted, based on said generated white signal W and said generated yellow signal Ye~,~

wherein said first output white signal generation instrument generates said first output white signal $W_{out}^{(1)}$

(Formula 3)

$$W_{out}^{(1)} = W+K_1 \cdot Ye$$

for a predetermined positive constant K_1.

2.   (Cancelled)

3.   (Original) The color image processing apparatus according to claim 1, further comprising output blue signal generation instrument which generates an output blue signal B_{out} for making said blue display to be outputted, based on said input blue signal B_{in} for making the blue display to be inputted, said generated yellow signal Ye, and said generated white signal W.

4.   (Original) The color image processing apparatus according to claim 3, wherein said output blue signal generation instrument generates said output blue signal B_{out}
(Formula 4)

$$B_{out} = B_{in}-L_1 \cdot Ye \cdot W$$

for a predetermined positive constant L_1.

5.   (Original) The color image processing apparatus according to claim 1, further comprising cyan signal generation instrument which generates a cyan signal
(Formula 5)

$$Cy = min(G_{in}-W, B_{in}-W),$$

based on said input green signal G_{in} to be inputted, said input blue signal B_{in} to be inputted, and said generated white signal W, and

second output white signal generation instrument which generates a second output white signal $W_{out}^{(2)}$ for making said white display to be outputted, instead of said first output white signal $W_{out}^{(1)}$, based on said generated first output white signal $W_{out}^{(1)}$ and said generated cyan signal Cy.

6.   (Original) The color image processing apparatus according to claim 5, wherein said second output white signal generation instrument generates said second output white signal $W_{out}^{(2)}$
(Formula 6)

$$W_{out}^{(2)} = W_{out}^{(1)}+K_2 \cdot Cy$$

for a predetermined positive constant K_2.

7.   (Original) The color image processing apparatus according to claim 5, further comprising output red signal generation instrument which generates an output red signal R_{out} for making said red display to be outputted, based on said input red signal R_{in} for making the red display to be inputted, said generated cyan signal Cy, and said generated first output white signal $W_{out}^{(1)}$.

8.   (Original) The color image processing apparatus according to claim 7, wherein said output red signal generation instrument generates said output red signal R_{out}
(Formula 7)

$$R_{out} = R_{in}-L_2 \cdot Cy \cdot W_{out}^{(1)}$$

for a predetermined positive constant L_2.

9.   (Original) The color image processing apparatus according to claim 5, further comprising magenta signal generation instrument which generates a magenta signal
(Formula 8)
$$Ma = min(B_{in}-W, R_{in}-W),$$
based on said input blue signal B_{in} to be inputted, said input red signal R_{in} to be inputted, and said generated white signal W, and

third output white signal generation instrument which generates a third output white signal $W_{out}^{(3)}$ for making said white display to be outputted, instead of said second output white signal $W_{out}^{(2)}$, based on said generated second output white signal $W_{out}^{(2)}$ and said generated magenta signal Ma.

10.   (Original) The color image processing apparatus according to claim 9, wherein said third output white signal generation instrument generates said third output white signal $W_{out}^{(3)}$
(Formula 9)
$$W_{out}^{(3)} = W_{out}^{(2)}+K_3 \cdot Ma$$
for a predetermined positive constant K_3.

11.   (Original) The color image processing apparatus according to claim 9, further comprising output green signal generation instrument which generates an output green signal G_{out} for making said green display to be outputted, based on said input green signal G_{in} for making the green display to be inputted, said generated magenta signal Ma, and said generated second output white signal $W_{out}^{(2)}$.

12.   (Original) The color image processing apparatus according to claim 11, wherein said output green signal generation instrument generates said output green signal G_{out}
(Formula 10)
$$G_{out} = G_{in}-L_3 \cdot Ma \cdot W_{out}^{(2)}$$
for a predetermined positive constant L_3.

13.   (Currently Amended) A color image processing method of performing a color image display using a red display, a green display, a blue display and a white display, comprising:
        a white signal generation step of generating a white signal

(Formula 1)

$$W = \min(R_{in}, G_{in}, B_{in}),$$

based on an input red signal R_{in} for making said red display to be inputted, an input green signal G_{in} for making said green display to be inputted, and an input blue signal B_{in} for making said blue display to be inputted;

a yellow signal generation step of generating a yellow signal

(Formula 2)

$$Ye = \min(R_{in}-W, G_{in}-W),$$

based on said input red signal R_{in} to be inputted, said input green signal G_{in} to be inputted, and said generated white signal W; and

a first output white signal generation step of generating a first output white signal $W_{out}^{(1)}$ for making said white display to be outputted, based on said generated white signal W and said generated yellow signal Ye,

wherein said first output white signal $W_{out}^{(1)}$ is generated as

(Formula 3)

$$W_{out}^{(1)} = W + K_1 \cdot Ye$$

for a predetermined positive constant K_1.

14.   (Original) The color image processing method according to claim 13, further comprising an output blue signal generation step of generating an output blue signal B_{out} for making said blue display to be outputted, based on said input blue signal B_{in} for making the blue display to be inputted, said generated yellow signal Ye, and said generated white signal W.

15.   (Original) The color image processing method according to claim 13, further comprising a cyan signal generation step of generating a cyan signal

(Formula 5)

$$Cy = \min(G_{in}-W, B_{in}-W),$$

based on said input green signal G_{in} to be inputted, said input blue signal B_{in} to be inputted, and said generated white signal W, and

a second output white signal generation step of generating a second output white signal $W_{out}^{(2)}$ for making said white display to be outputted, instead of said first output white signal $W_{out}^{(1)}$, based on said generated first output white signal $W_{out}^{(1)}$ and said generated cyan signal Cy.

16.   (Original) The color image processing method according to claim 15, further comprising an output red signal generation step of generating an output red signal R_{out} for making said red display to be outputted, based on said input red signal R_{in} for making the red display to be inputted, said generated cyan signal Cy, and said generated first output white signal $W_{out}^{(1)}$.

17.   (Original) The color image processing method according to claim 15, further comprising a magenta signal generation step of generating a magenta signal
(Formula 8)
$$Ma = min(B_{in}-W, R_{in}-W),$$
based on said input blue signal B_{in} to be inputted, said input red signal R_{in} to be inputted, and said generated white signal W, and

a third output white signal generation step of generating a third output white signal $W_{out}^{(3)}$ for making said white display to be outputted, instead of said second output white signal $W_{out}^{(2)}$, based on said generated second output white signal $W_{out}^{(2)}$ and said generated magenta signal Ma.

18.   (Original) The color image processing method according to claim 17, further comprising an output green signal generation step of generating an output green signal G_{out} for making said green display to be outputted, based on said input green signal G_{in} for making the green display to be inputted, said generated magenta signal Ma, and said generated second output white signal $W_{out}^{(2)}$.

19.   (Currently Amended) <u>A recording medium which is computer processable and records</u> A<u>a</u> program for enabling a computer to perform the color image processing method according to claim 13, comprising:
a white signal generation step of generating a white signal
(Formula 1)
$$W = min(R_{in}, G_{in}, B_{in}),$$
based on an input red signal R_{in} for making said red display to be inputted, an input green signal G_{in} for making said green display to be inputted, and an input blue signal B_{in} for making said blue display to be inputted;
_____a yellow signal generation step of generating a yellow signal
(Formula 2)
$$Ye = min(R_{in}-W, G_{in}-W),$$

based on said input red signal R_{in} to be inputted, said input green signal G_{in} to be inputted, and said generated white signal W; and

_____a first output white signal generation step of generating a first output white signal $W_{out}^{(1)}$ for making said white display to be outputted, based on said generated white signal W and said generated yellow signal Ye.

20.   (Cancelled)